

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 10-120071 (71)Applicant : AGENCY OF IND SCIENCE & TECHNOL
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(54) PRODUCTION OF AROMATIC POLYCARBONATE

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject compound safely and efficiently without using phosgene and a large amount of a precious metal catalyst by reacting an aromatic dihydroxy compound with carbon monoxide and oxygen is the presence of a specific 2 kinds of catalysts.

SOLUTION: This method for producing an aromatic polycarbonate is to react (A) an aromatic dihydroxy compound (e.g.; bisphenol A) with (B) carbon monoxide and (C) oxygen in the presence of (D) a catalyst consisting of (i) a palladium-based catalyst containing 10-8-0.5 mol, preferably 10-6-10-2 mol palladium based on 1 mol component (A) and (ii) 0.1-100 mol, preferably 0.5-50 mol redox-based catalyst based on 1 mol palladium in the component (i) and (E) (hydro)quinone and an organic base, as necessary. As the component (ii), a copper compound, a cerium compound, or the like, are cited. It is preferable to remove water generated during the reaction as a byproduct by using a dehydrating agent such as a molecular sieve (a zeolite), or the like.

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